

Interoffice

Correspondence

To:

Ebi Nassiri, P.E.

Assistant Director

Engineering Branch
Engineering and Construction

Division

From:

Supervising Engineer

Geo-Environmental Services Branch

Engineering and Construction Division

Date:

December 23, 2014

Attn:

Iraj Ranjbar, P.E.

Subject:

ALMEDA SIMS WWTP AND SLUDGE

PROCESSING FACILITY IMPROVEMENTS

12319 ½ ALMEDA ROAD WBS NO. R-000298-0010-3

Attached are two copies of the asbestos and lead survey reports for the subject property, prepared by Environmental Consultants & Management Services, Inc. (ECMS), the City's consultant for the subject project. The consultant's findings and recommendations are summarized below:

ASBESTOS

Findings:

A total of fifty-four (54) bulk material samples were taken with suspect Asbestos Containing Materials (ACM):

- 7 samples from green corrugated panels from Silo area and new & Old Loading Docks;
- o 18 samples from floor tiles from control room & offices;
- 4 samples from piping & valves insulations from Furnace B area & Old Load Out area;
- o 6 samples from gaskets from Furnace doors;
- 4 samples from concrete coatings from Silo area;
- 12 samples from ceiling panels from control room & offices; and
- o 3 samples from conveyor belts from Conveyor areas.

The sample was collected from area within the subject property and analyzed for asbestos content by using Polarized Light Microscopy Method (PLM).

 Analytical results indicated that asbestos content was detected above the regulatory level of one percent (>1%) from seven (7) samples collected from the green corrugated panels, and three (3) samples from the floor tiles from the control room and offices of the New Loading Dock, 2nd level.

Recommendations:

ECMS recommends abatement activities prior to any demolition/renovation activities.

Asbestos and Lead Survey for Almeda Sims WWTP and Sludge Processing Facility Improvements Page 2

LEAD

Findings:

A total of fifteen (15) paint chip samples were collected and analyzed for lead by using Flame AA Method (See Lead Survey Section Report).

- o Three (3) samples had lead contents less than 0.06% by weight; and
- o Twelve (12) samples had no lead detected.

Recommendations:

 Recycle all metal components including those with lead containing paint. No abatement is required.

OSHA regulations apply to workers during demolition and/or renovation. For further details, refer to the lead survey report for detailed findings and recommendations (See Lead Survey Section Report).

If you have any questions, please call me at 832-395-2260 or T.C. Nguyen at 832-395-2258.

Maher Tanbouz, P.E.

H:\constr\A-ENV-SB\Environmental\Abestos_&_Lead\A&L Assessments\2014\(R-000298-0010-3)_(Almeda_Sims_WWTP_&_Sludge_Processing_Fac_at_12319_Almeda_Rd).doc

Attachment: Two (2) Asbestos and Lead Survey Reports

ec: Daniel R. Menendez, P.E. Ravi Kaleyatodi, P.E., CPM

Ebi Nassiri, P.E.

MP Mike Pezeshki, P.E.

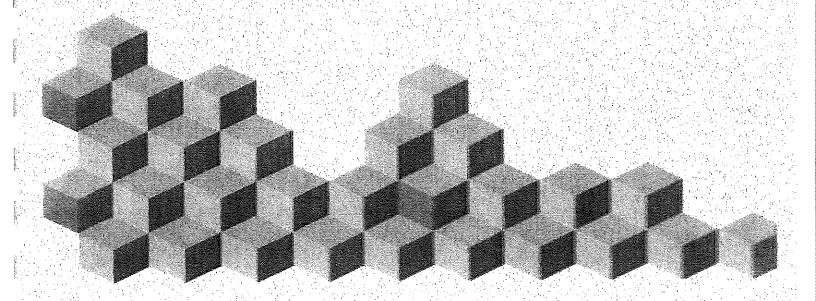
Environmental Consultants & Management Services

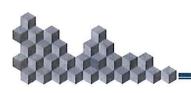
Asbestos and Lead Survey Report

Almeda Sims WWTP and Sludge Processing Facility 12319 ½ Almeda Road HOUSTON, TEXAS

> Project WBS No. R-000298-0010-3 Task Number 14-06 ECMS Project Number: 3805

Prepared for:
City of Houston
Public Works and Engineering Department
Engineering & Construction Division
Geo-Environmental Services Branch
611 Walker-14th Floor, Houston, Texas 77002





ASBESTOS AND LEAD SURVEY REPORT

Almeda Sims WWTP and Sludge Processing Facility 12319 ½ Almeda Road HOUSTON, TX

> WBS No. R-000298-0010-3 Task Number: 14-06 ECMS Project Number: 3805

Prepared for:

City of Houston
Public Works & Engineering Department
Engineering & Construction Division
Geo-Environmental Services Branch
611 Walker -14th Floor
Houston, Texas 77002



Engineering Management, Construction Support & Environmental Services

August 30, 2014

Public Works & Engineering Department Engineering & Construction Division Geo-Environmental Services Branch 611 Walker Street, 14th Floor Houston, Texas 77002

Re:Comprehensive Asbestos and Lead-Based Paint Survey

Almeda Sims WWTP and Sludge Processing Facility 12319 ½ Almeda Road. Houston TX

WBS No. R-000298-0010-3 Task Number: 14-06

ECMS Project Number: 3805

Environmental Consulting & Management Services, Inc. (ECMS) is pleased to present the results of the asbestos and lead-based paint survey conducted at the above referenced facility.

This report includes the results of our findings from visual reconnaissance, sampling and laboratory analysis. An assessment of the information was made to arrive at the conclusions stated and the recommendations presented.

We appreciate the opportunity to be of service to you and look forward to working on future assignments. Should you have any questions concerning this report or if we can assist you with any other matter, please feel free to contact us. ECMS personnel are available for your assistance around the clock.

Sincerely,

Environmental Consulting & Management Services, Inc. (ECMS)

Tyrone Dorian, P.E, P.G.

Individual Asbestos Consultant #10-5313 Lead Risk Assessor License #2070156

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Qualifications and Limitations

Our professional services have been performed, our findings obtained and our recommendations prepared in accordance with customary principles and practices in the fields of environmental science and engineering. This warranty is in lieu of all other warranties either expressed or implied. This company is not responsible for the independent conclusions, opinions or recommendations made by others based on the field exploration and laboratory test data presented in this report.

The conclusions and recommendations describe only the conditions present at the time of our assessment, in areas that were observed. Opinions and recommendations presented herein apply to facility conditions existing at the time of our investigation and those reasonably foreseeable.

This report is prepared for the sole and exclusive use of the City of Houston, its contractors or agents. It is designed to aid the building owner, architect, construction manager, general contractor, and potential abatement contractor in locating Asbestos-Containing Materials (ACM) and Lead-Based Paint (LBP).

Reasonable efforts were made to obtain representative samples of building materials and have those materials analyzed for asbestos or lead content. Should suspect materials be discovered during building renovation/demolition that have not been addressed, samples of the materials should be collected and analyzed for asbestos or lead content prior to renovation and/or demolition.

Notification to the Texas Department of State Health Services (DSHS) must be given prior to any renovations or demolition activities.

Executive Summary

Environmental Consultants & Management Services, Inc. (ECMS) conducted asbestos and lead surveys on August 18, 2014, at the Almeda Sims Waste Water Treatment Plant (WWTP) & Sludge Processing Facility located at 12319 ½ Almeda Rd. Houston, TX. The WWTP and Sludge Processing facility is an isolated above grade treatment system consisting of three (3) components; a in series Silo system-4 units, new Loading Dock area, a Sludge Processing and Furnace system and an original Loading Dock area with a 2nd level Belt Processing system w/multiple control rooms. The interior of the structure contains multiple systems with distribution piping, valves, pumps, electrical control panels, and a conveyor belt system. Paint deterioration was noted on painted equipment and surfaces. Entry into the open WWTP and Sludge Process was accessible by stairs throughout the entire area.

Site inspections and bulk sample collections were conducted using standard protocols specified by the Texas Asbestos Health Protection Act (TAHPA) and the Texas Lead Reduction Rules. All accessible area of the facility was sampled. Inaccessible materials (drop gaskets, equipment gaskets, and buried piping) are assumed to be asbestos and/or lead containing materials until tested.

J3 Environmental Laboratory Inc. is a State of Texas Licensed Asbestos Laboratory (PCM, PLM, TEM) and NVLAP and ELLAP Accredited and performed all asbestos and lead analyses.

Asbestos Summary

Findings:

Seven homogenous areas of suspect asbestos materials were identified at the time of our site visit. Fiftyfour (54) bulk material samples were taken of suspect asbestos-containing materials. Two areas out of the seven areas tested positive for asbestos content. The areas that revealed positive are the exterior siding at the New Loading dock and at the Furnace-Sludge Processing area and flooring at the 2nd level control room of the new Loading Dock area. Seven (7) exterior building samples were of a corrugated designed heavy gauge cementitious grade material green in color in good condition. Eighteen (18) flooring samples were of a vinyl texture in various rooms throughout the facility were in fair condition; the color pattern varies from cream, light grey, beige, dark grey and salmon color tone. Four (4) pipe and valve insulation samples were of an epoxy texture and fiber mesh, white in color and good condition. Six (6) viewing door gasket samples at furnaces and manway entrances were a fiber mesh material in good condition, light grey in color. ECMS collected four (4) samples from the concrete coating surfaces from the Silo system, sample material are light grey in color and in good condition. ECMS collected twelve (12) drop ceiling panel samples throughout the office/control rooms, the panels are fiber texture, white in color and in fair condition. ECMS collected three (3) conveyor belt samples within the treatment system; the samples are black in color of a rubber/fiber material and in good condition.

No other suspect asbestos – containing materials were identified.

Recommendations:

Based on the findings and field investigations, abatement activity is required at this site prior to any construction activities.

Cost Estimate:

Asbestos-Containing Building Materials:

Estimated cost for exterior siding abatement is \$5.00/sq. ft. (including disposal cost).

Removal method: Unbolt panels and poly wrap for disposal.

Estimated cost for flooring abatement \$3.50/sq. ft. (including disposal cost).

Removal method: Poly walls, inverted prep ceiling and conventional tile removal with mastic removal.

Estimated cost for gasket abatement is \$75 - \$100 per flange (including disposal cost).

Removal method: Carefully break flanges, wet gaskets with amended water to remove from steel piping.

Lead Summary

Findings:

Seven (7) homogenous areas of suspect lead-based paint were identified at the time of our site visit. Fifteen (15) paint chip samples were taken and analyzed for lead content. Analytical results indicated twelve (12) samples were below reporting limits (BRL), three (3) samples showed traces of lead but is still below the regulatory limits of 5,000ppm lead concentration.

Lead-Containing Paint:

Beige with Red base backing paints on the door frame entrance of Silo A; contains lead levels at 349.4 ppm sample #L1. This is a City of Houston Hazard Category A. Allowable Lead Level, paint material. OSHA regulations apply to workers during demolition or renovation.

Silver paint on Furnace A&B exterior wall surface contains lead levels at 176.4 ppm sample #L10. This is a City of Houston Hazard Category A. Allowable Lead Levels on paint material. OSHA regulations apply to workers during demolition or renovation.

Beige paint on exterior metal support beams of Old loading dock facility contains lead levels at 146 ppm sample #'s L11. This is a City of Houston Hazard Category A. Lead Levels on painted material. OSHA regulations apply to worker during demolition or renovation.

Recommendations:

Recycle all metal components including those with lead containing paint. No lead abatement is required.

OSHA Requirements: The U.S. Occupational Safety and Health Administration (OSHA) do not specify a minimum lead concentration in its lead standard. Rather, it requires all employers to determine an exposure level and provide prescribed training, personal protective equipment, medical surveillance, and record keeping.

All Paint which has a detectable level of lead is considered a lead-containing paint by OSHA and should be handled in the following ways:

- 1. Notify any contractor cutting, abrading or disturbing lead containing paint that the paint contains the listed concentrations of lead.
- 2. Metal components should be dismantled by unfastening bolts where possible. Cutting, abrading or welding on painted metal components should be discouraged.
- Disposal of painted metal components should be through a metal recycling company that accepts metal with lead paint.

Cost Estimate:

TCLP testing costs are estimated at \$200.00 per sample if required.

COMPREHENSIVE ASBESTOS SURVEY

Environmental Consulting Services, Inc. (ECMS) has completed a comprehensive asbestos survey at the Almeda Sims WWTP located at 12319 ½ Almeda Rd. in Houston, Texas, and referred to as the "facility".

Scope of Services

This survey was performed to determine the presence, location, and condition of Asbestos-Containing Materials (ACM) at the referenced facilities. Site inspections and bulk sample collections were conducted using standard protocols for sampling and analysis specified by the Texas Asbestos Health Protection Act (TAHPA). All accessible areas of the facility were inspected and suspect materials sampled. Inaccessible materials were assumed to be asbestos-containing materials until available for testing (drop gaskets, equipment gaskets, and underground piping). No site records were available for use during the inspection.

Tyrone P. Dorian and Alphonso Drummond, an EPA-accredited/TDH-Licensed Asbestos Inspector with ECMS performed the facility inspection on August 18, 2014. The samples were collected in a manner that reduced potential for fiber and dust release and exposure using standard methods. All samples were deposited into secure containers and labeled for transport to the J3 Laboratory in Houston, Texas. J3 Laboratory is a State Licensed Asbestos Laboratory (PCM, PLM, TEM) and NVLAP Accredited.

Only materials accessible at the time of the survey were inspected. Underground components and equipment were not accessible.

The inspection consisted of the following:

- Sampling of suspect Asbestos-Containing Materials (ACMs).
- Quantifying and qualifying ACM.
- Locating ACM samples on computer generated maps.
- Preparing an inspection report.

Facility Description

The Almeda Sims WWTP Facility primarily is an above grade system. The WWTP and Sludge Processing facility is an isolated above grade treatment system consisting of five (5) components; a series of Silo system-4 units, new Loading Dock area, a Sludge Processing and Furnace system and an original Loading Dock area with a 2nd level Belt Processing system w/multiple control rooms. The interior of the structure contains multiple systems with distribution piping, valves, pumps, electrical control panels, and a conveyor belt system. Paint deterioration was noted on painted equipment and surfaces.

Sampling Techniques and Laboratory Methods

This section details the sampling and laboratory methods used in the comprehensive asbestos survey to quantify and assess the condition of the confirmed ACM.

Survey Methods

This section addresses the criteria necessary for identifying, evaluating and assessing suspect Asbestos-Containing Materials (ACMs).

- a. Homogeneous Areas: Prior to collecting bulk samples of suspect ACM, distinct homogeneous sampling areas and specific sampling sites were defined based on building construction dates. A homogeneous sample area can be defined as a material that is similar in appearance, color, and generally having the same episode of installation as surrounding "like" material. Attempts were made in all cases to obtain representative samples of like materials, as this is the most cost-effective method for determination of ACM. It should be assumed by the building owner, contractor, and the abatement contractors that the composition of like materials in a single homogeneous area is the same. Homogeneous areas sampled as part of this survey include materials which have been identified by ECMS as ACM and have been classified as friable (material containing more than one-percent asbestos that, when dry, can be crumbled, pulverized or reduced to powder by hand pressure) or non-friable (material containing more than one-percent asbestos that, when dry, cannot be crumbled, pulverized or reduced to powder by hand pressure). Friable materials are more likely to become airborne, thereby increasing the potential for health hazards.
- b. Hazard Assessment: According to AHERA (December 30, 1986), verified friable or assumed ACM uncovered in an inspection or re-inspection of a facility shall be accessed in view of past, present, or future likelihood of disturbance and may include the following:
 - 1. Location of material present.
 - 2. Condition of material: type of damage, severity of damage, and the extent or spread of damage.
 - 3. Accessibility of the materials.
 - 4. Potential for disturbance of the material.
 - 5. Known or suspected causes of damage (i.e., air erosion, vandalism, service or repair, vibration, and water).
 - 6. Preventive measures which might eliminate the likelihood of undamaged ACM from becoming significantly damaged.
 - 7. Actions to be taken to protect human health.

The above hazard assessment factors will be discussed according to classifications of verified ACM. The ACM is usually examined and prioritized according to hazard categories based on condition, location, potential for damage and potential for fiber release. The asbestos hazard categories as defined by the City of Houston are presented in Table 1 as follows:

Table 1: HAZARD CATEGORY AND RESPONSE ACTION				
Hazard Category	Response Action			
C-1: Asbestos Present	Serious health hazard, as defined by EPA, abatement should be a top priority			
C-2: Asbestos Present	Health hazard, as defined by EPA, abatement should be planned			
C-3: Asbestos Present	No action necessary unless renovation, remodeling, or demolition is planned			
B-1: Asbestos Present	Contains I% asbestos, or less, not regulated by TDH			
B-2: Asbestos Present	Adequately enclosed			
B-3: Asbestos Present	Adequately encapsulated			
A: No asbestos found	N/A			
A-1: Asbestos Abated	Once identified asbestos containing materials have been abated			

c. Field Methods: All accessible areas of the facility were inspected for the presence of suspect ACM. Based on laboratory analysis two areas of suspect ACM were revealed positive at the facility.

Laboratory Methods

Seven (7) homogenous areas of suspect asbestos containing materials were identified at the time of our observation. The materials sampled were analyzed using the Polarized Light Microscopy (PLM) methods with dispersion-staining techniques according to US EPA 600/R93/116. This type of analysis requires the microscopist to take a portion of the bulk sample and treat it with a special light-refractive oil emulsion stain. The prepared slide is then subjected to a variety of tests while being viewed under varying polarization of light.

Each type of asbestos displays unique characteristics when subjected to these tests. Percentages of the identified types of asbestos are determined by visual estimation. Even though this is estimation, any material that contains over one percent (> 1%) of any type of asbestos using the PLM Method is considered an ACM and must be handled according to OSHA, EPA, and State regulations if disturbed.

J3 Labs participates in the EPA Quality Assurance Program for Polarized Light Microscopy and are accredited by the EPA/NIST. This program helps ensure accurate repeatable results on the part of the analyst.

Asbestos-Containing Material (ACM) Verification and Assessment

Fifty-four (54) samples were collected within the WWTP and Sludge Processing facility located above grade. Two building materials revealed to be positive asbestos content (City of Houston Hazard Category C-3) - asbestos present. "See Table 2 page 7"

Hazard Assessment Results

The exact hazard ratings as defined by the City of Houston Hazard Category and Response Action (Table 1) are referenced in Table 2.

TABLE 2: SUSPECT ACM ANALYTICAL RESULTS						
Homogenous Area No.	Material	Location	Type*	Damaged*	Hazard Risk*	Asbestos Content (ND= None Detected)
1	Exterior Siding Green corrugated panels	Located at the New & Old loading dock and at the Silo's	Non-friable	Good Condition	C-3	Avg. 15-20%
2	Flooring Material	New Loading dock building (2 nd level). In offices and control room	Non-friable	Fair Condition	C-3 x	Avg. 4%
3	Pipe and Valve Insulation	Furnace B area & 2 nd level of old load out area	Friable	Good Condition	А	ND
4	Gaskets	Furnace system manway entrances	Non-friable	Good Condition	A	ND
5	Exterior Coatings	Silo Systems	Non-friable	Good Condition	А	ND
6	Ceiling Panels	in offices and control rooms	Friable	Fair Condition	А	ND
7	Conveyor Belt	Running through total operating facility	Non-friable	Good Condition	Α	ND

Findings and Recommendations

Findings

ECMS has completed an asbestos survey at the Almeda Sims Wastewater Treatment Plant & Sludge Processing Facility in Houston, Texas. The scope of services was to inspect the facility for the presence of asbestos-containing materials. Only materials accessible at the time of the survey were inspected. Underground components and equipment were not accessible.

Seven homogenous areas of suspect asbestos materials were identified at the time of our site visit. Fifty-four (54) bulk material samples were taken of suspect asbestos-containing materials. Two areas out of the seven areas tested positive for asbestos content. The areas that revealed positive are the **exterior siding** at the New Loading dock and at the Furnace-Sludge Processing area and **flooring** at the 2nd level control room of the new Loading Dock area. Seven (7) exterior building samples were of a corrugated designed heavy gauge cementitious grade material green in color in good condition. Eighteen (18) flooring samples were of a vinyl texture in various rooms throughout the facility were in fair condition; the color pattern varies from cream, light grey, beige, dark grey and salmon color tone. Four (4) pipe and valve insulation samples were of an epoxy texture and fiber mesh, white in color and good condition. Six (6) viewing door gasket samples at furnaces and manway entrances were a fiber mesh material in good condition, light grey in color. ECMS collected four (4) samples from the concrete coating surfaces from the Silo system, sample material are light grey in color and in good condition. ECMS collected twelve (12) drop ceiling panel samples throughout the office/control rooms, the panels are fiber texture, white in color and in fair condition. ECMS collected three (3) conveyor belt samples within the treatment system; the samples are black in color of a rubber/fiber material and in good condition.

Two (2) homogenous areas out of seven (7) homogenous areas were identified and tested positive for asbestos content.

- a. Corrugated Exterior Siding material within each loading dock area throughout the facility, which appeared to be in good condition at the time of our site visit. **No action necessary unless renovation, remodeling, or demolition is planned.** (City of Houston Category C-3).
- b. Flooring Tiles from new loading dock building 2nd level within the 2nd level of the new loading dock area inside control room adjacent to stair system, which appeared to be in fair condition at the time of our site visit. **No action necessary unless renovation, remodeling, or demolition is planned.** (City of Houston Category C-3).

Recommendations

Based on the findings and field investigations, abatement activity is required at this site prior to any construction activities.

CHECK LIST FOR ASBESTOS SURVEYS

NAME OF THE FACILITY: Almeda Sims WWTP

FACILITY ADDRESS: 12319 1/2 Almeda Rd., Houston, Texas

DATE OF THE SURVEY: 08/18/2014

CONSULTANT: ECMS, Inc.

Sr. INSPECTOR(S) NAME: Tyrone P. Dorian

Note: Items/information listed below must be included in the report. Use this checklist to ensure completeness of your report. Mark "X" or "check" in front of the information included in the report. Submit completed check list with the report. If a facility is surveyed for asbestos and lead, the survey reports shall be segregated in one binder or preferably two separate reports.

1.	✓ Date and Contract number of the survey			
2.	\checkmark	Scope of work		
3.	✓ Copy of the inspectors TDH license			
4.	\checkmark	Name and address of the facility		
5.	N/A	Statement of building records were used in the inspection and if not, why?		
6.	N/A	Date of construction and last renovation (if any) of the building.		
7.	7. Cover letter (in report) certain executive summary or executive summary begin th report format			
8.	✓ List of areas that were not inspected. Explain.			
9.	\checkmark	Procedures and protocols used to collect bulk samples.		
10.	N/A	List of measures taken to prevent potential fiber release form locations where samples were extracted		
11.	✓	Drawings and/or photographs with sample locations marked to facilitate future location of materials sampled.		
12.	\checkmark	Statementif an accredited (NVLAP) laboratory was used for Sample Analysis.		
13.	✓	Copy of the laboratory accreditation certificate.		
14.	\checkmark	Copy of the laboratory analysis results of the bulk samples.		
15.	✓	Statement (by the laboratory) regarding Quality Assurance and Quality Control performed.		
16.	\checkmark	Copy of the chain of custody form for the bulk samples.		
17.	\checkmark	List of materials assumed to be containing asbestos.		
18.	√	City of Houston Asbestos Hazard Categorization (AHC) list and categorization of all the		

samples according to the AHC list included in the report.

18.

19. N/A Condition of the building structure such as deterioration, structural problems, or other damages.

If Asbestos Present:

- 20. N/A Statement...if repeat analysis using point counting PLM was done as required by the city for the samples that show less than 5% asbestos.
- 21. ✓ Photographs of all Materials proven to be ACM are included.
- 23.
 Recommendations are made for all Asbestos Containing Materials.
- 24. Reasonably accurate quantities of ACM's are estimated and given in the report.
- 25. ✓ Cost estimations are given for abatement.
- 26. N/A Operation and Maintenance Plans are recommended.

LEAD-BASED PAINT SURVEY

Environmental Consultants and Management Services, Inc. (ECMS) performed a Lead-Based Paint Survey at the Almeda Sims WWTP located at 12319 ½ Almeda Rd., in Houston, Texas, and referred to as the "facility". Tyrone P. Dorian, an EPA/TDH-certified Lead Risk Assessor with ECMS, performed the facility inspection on August 18, 2014. The purpose of this assessment was to determine if Lead-Based Paint (LBP) was present at the facility.

Scope of Services

ECMS was contracted by the City of Houston to perform the following scope of services:

- 1. Collect paint samples at the facility;
- 2. Submit the paint samples to a laboratory for the analysis of lead content; and,
- 3. Prepare a report presenting the analytical results, including recommendations for abatement of any lead-based painted materials discovered.

Sampling and Analysis

Paint Samples Collection

Seven (7) homogeneous areas were identified. A total of fifteen (15) material samples of suspect Lead-Based-Paint (LBP) materials were collected and analyzed. The paint chips were placed in re-closable plastic bags, labeled and shipped to J3 Labs for analysis. Description and location of the samples are included in Table 2. HUD sampling procedures and guidelines for evaluation and control of lead-based paint in housing were followed for this survey.

Lead containing paint hazard categories as defined by the City of Houston are presented in Table 1 as follows:

Hazard Category	Response Action		
C-1: Lead Present	Health Hazard, as defined by applicable federal, state and city regulations. Abatement should be a top priority. (> 5,000 ppm or 0.5% by weight)		
C-2: Lead Present	No action necessary when the material is adequately enclosed must be addressed prior to demolition or renovation. OSHA regulations apply to workers or the public.(> 600 ppm or 0.06% but < 5,000 ppm or 0.5% by weight)		
A: Allowable Lead Level	< 600 ppm or 0.06% by weight		
A-1: Lead Abated	Once identified; lead containing materials (LCM) have been abated		

TABLE 2: SUSPECT LBP ANALYTICAL RESULTS					
Homogeneous Area	Location	Color / Hazard	Lead Concentration - ppm (BDL=Below Detectable Limits)		
1	Silo A Door Frame	Beige & Red/Category A	349		
2	Furnace B Exterior Paint Coating	Silver/Category A	176		
3	Support Beams Old Loading Building	Beige/Category A	146		
4	Silo B, C, and D Door Frames	Cream & Grey/Category A	BDL		
5	Silo B and D Exterior Walls	Pale Grey/Category A	BDL		
6	Furnace B Vent Pipes	Red & Silver/Category A	BDL		
Belt Press Area 2 nd & 3 rd Level Tank Piping and Vent System		Pale Green, Blue, Dark Beige, Red & Off White /Category A	BDL		

Laboratory Analytical Results

J3 Labs is accredited by the American Industrial Hygiene Association for environmental lead analysis, and is recognized by the Environmental Protection Agency (EPA) under the National Lead Laboratory Accreditation Program. Flame AA method (SW-846,3050B/7420) was utilized to detect the lead content in the paint materials sampled. Lead-based paint is defined as a paint chip with a lead content of 0.5% by weight or greater in a dry film of paint applied.

Findings and Recommendations

Findings

ECMS has completed a Lead-Based Paint Survey at the facility. This assessment was performed to determine the presence and location of lead-based paint

A total of fifteen (15) material samples of suspect Lead-Based-Paint (LBP) materials were collected and analyzed. All results are categorized as City of Houston Hazard **Category A.**

- a. Beige with Red base backing paints on the door frame entrance of Silo A; contains lead levels at 349.4 ppm sample #L1. This is a City of Houston Hazard Category A. Allowable Lead Level, paint material. OSHA regulations apply to workers during demolition or renovation.
- b. Silver paint on Furnace A&B exterior wall surface contains lead levels at 176.4 ppm sample #L10. This is a City of Houston Hazard Category A. Allowable Lead Levels on paint material. OSHA regulations apply to workers during demolition or renovation.
- c. Beige paint on exterior metal support beams of Old loading dock facility contains lead levels at 147 ppm sample #'s L11. This is a City of Houston Hazard Category A. Lead Levels on painted material. OSHA regulations apply to worker during demolition or renovation.

Recommendations

Recycle all metal components including those with lead containing paint. No lead abatement is required.

OSHA Requirements: The U.S. Occupational Safety and Health Administration (OSHA) do not specify a minimum lead concentration in its lead standard. Rather, it requires all employers to determine an exposure level and provide prescribed training, personal protective equipment, medical surveillance, and record keeping.

All Paint which has a detectable level of lead is considered a lead-containing paint by OSHA and should be handled in the following ways:

- 1. Notify any contractor cutting, abrading or disturbing lead containing paint that the paint contains the listed concentrations of lead.
- 2. Metal components should be dismantled by unfastening bolts where possible. Cutting, abrading or welding on painted metal components should be discouraged.
- 3. Disposal of painted metal components should be through a metal recycling company that accepts metal with lead paint.

CHECK LIST FOR LEAD SURVEYS

NAME OF THE FACILITY: Almeda Sims WWTP

FACILITY ADDRESS: 12319 1/2 Almeda Rd., Houston, Texas

DATE OF THE SURVEY: 08/18/14

CONSULTANT: ECMS, Inc.

Sr. INSPECTOR(S) NAME: Tyrone P. Dorian

Note: Items/information listed below must be included in the report. Use this check list to ensure completeness of your report. Mark "X" or "check" in front of the information included in the report. Submit completed check list with the report. If a facility is surveyed for lead and asbestos, the survey reports shall be segregated in one binder or preferably two separate reports.

- 1. Statement...if "HUD Guidelines for Evaluation and Control of Lead Based Paint in Housing" or any other criteria were followed for the survey.
- 2. ✓ Date and Contract number of the survey.
- 3. ✓ Scope of the work.
- 4. ✓ Copy of the inspector (s) TDH Certificate.
- 5. ✓ Name and Address of the facility.
- 6. N/A Statement...if building records were used in the inspection, and if not, Why?
- 7. Cover letter (in report) containing executive summary or executive summary at the beginning of the report format.
- 8. N/A Date of construction and last renovation (if any) of the building.
- 9. N/A List of areas that were not inspected. Explain.
- 10. N/A Condition of the building structure such as deterioration, structural problems or other damages.
- 11. ✓ List of components assumed to have lead based paint or coating, if any.
- 12. City of Houston Lead Hazard Categorization (LHC) list and categorization of all the samples according to the LHC list included in the report.

If Analyzer Used:

- 13. N/A Performance Characteristics Sheet (PCS) for the XRF equipment/s used. Calibration Check Test Results (Form 7.2, HUD Guidelines, or equivalent).
- N/A Calibration Check Test Results (Form 7.2, HUD Guidelines, or equivalent).
- 15. N/A Statement...if HUD Guidelines were followed for Calibration Check Test of the XRF equipment and replacement XRF equipment, if used.
- 16. N/A Installation date and type of source for XRF equipment and replacement equipment, if used.

17. N/A Drawings and photographs with XRF reading locations marked to facilitate future location of XRF readings.

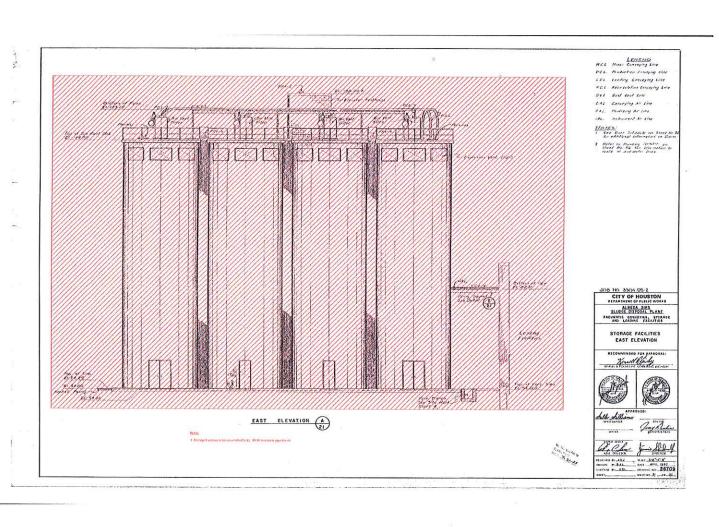
If Samples Taken for Laboratory Analysis:

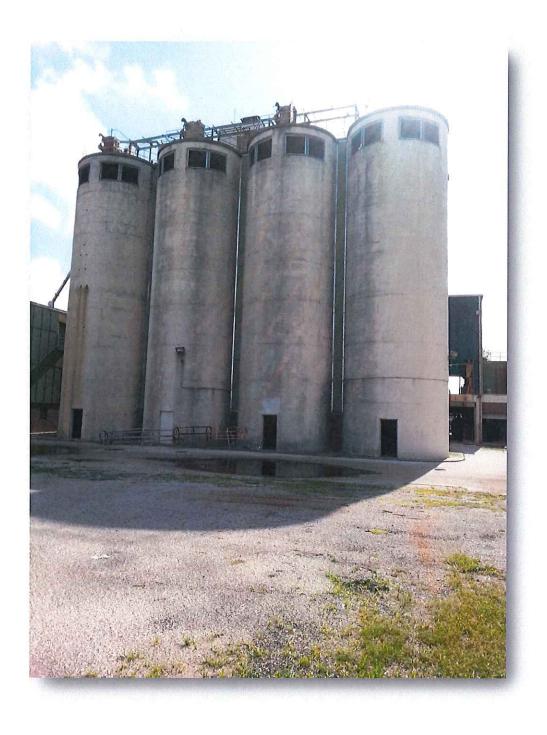
- 18. ✓ Procedures and protocols used to collect paint chip samples.
- 19. ✓ Copy of the chain of custody form for samples.
- 20. ✓ Statement...if an accredited (NLLAPIELLAP) laboratory was used for Sample Analysis.
- 21. ✓ Copy of the Laboratory accreditation certificate.
- 22. Copy of the laboratory analysis results of the paint chip samples.
- 23. Statement (by the laboratory) regarding Quality Assurance and Quality Control performed.
- 24. Photographs with sample locations marked to facilitate future location of coating materials sampled.

If Lead Found:

- 25. ✓ Photographs of all component areas proven to have lead.
- 26. ✓ Recommendations for all components proven to have lead based paint or coatings.
- 27. N/A Recommendations for Operation and Maintenance Plans.
- 28. N/A Estimated quantities of Lead Containing Materials.
- 29. N/A Cost estimations for abatement.

APPENDIX A
SITE MAPS & FACILITY PHOTO









APPENDIX B SITE PHOTOS

Room Marked A



2nd level Belt Press area



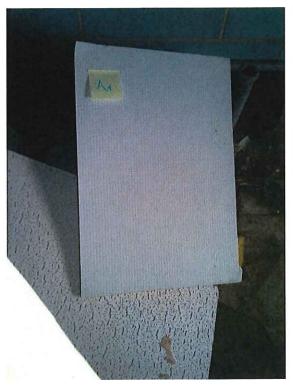
Flooring 2nd level Belt Press area



Flooring 2nd level Belt Press area



Flooring 2nd level Belt Press area



2 x 4 ceiling panels 2nd level Belt Press area



2 x 4 ceiling panels 2nd level Belt Press area



2 x 4 ceiling panels 2nd level Belt Press area

Room Marked B



Flooring 2nd level Belt Press area



Flooring 2nd level Belt Press area



Flooring 2nd level Belt Press area



2 x 4 ceiling panels 2nd level Belt Press area



2 x 4 ceiling panels 2nd level Belt Press area



2 x 4 ceiling panels 2nd level Belt Press area

Room Marked C





Flooring 2nd level Belt Press area

Flooring 2nd level Belt Press area



Flooring 2nd level Belt Press area



2 x 4 ceiling panels 2nd level Belt Press area



2 x 4 ceiling panels 2nd level Belt Press area



2 x 4 ceiling panels 2nd level Belt Press area

Room Marked E



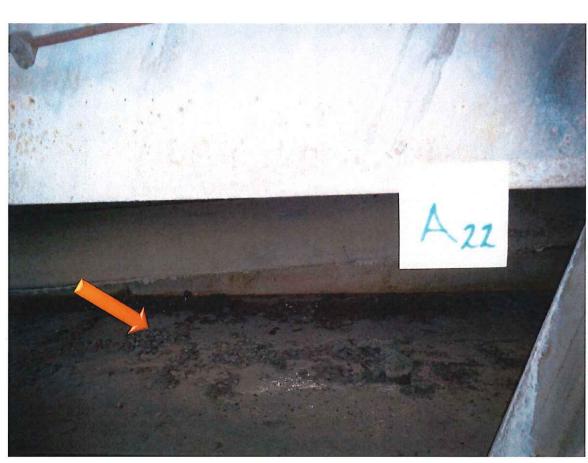
Flooring 2nd level Belt Press area



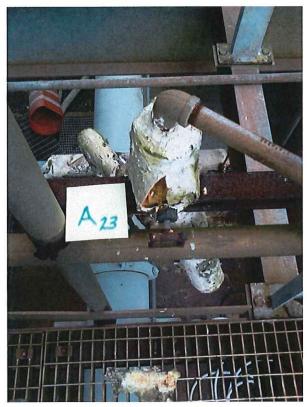
Flooring 2nd level Belt Press area



Flooring 2nd level Belt Press area



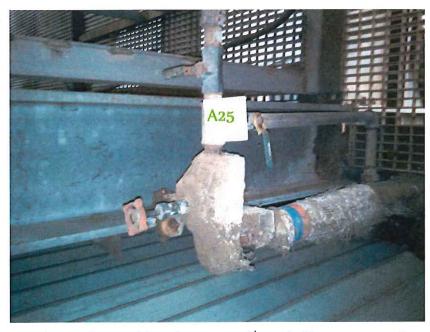
Conveyor Belt 2nd level Belt Press area



Valve Insulation Old Load Out Area 2nd Level Catwalk



Pipe Insulation Old Load Out Area 2nd Level Catwalk



Valve Insulation Old Load Out Area 2nd Level adjacent to room F

Room Marked F



Flooring 2nd level Old Load Out area



Flooring 2nd level Old Load Out area



Flooring 2nd level Old Load Out area



Pipe coating overhead pipe at area adjacent to Furnace B



Conveyor belt Ground Level below Belt Press area



Exterior Siding Belt Press area level 2



Exterior Siding Belt Press area level 2



Exterior Siding Belt Press area level 2



Conveyor Belt 2nd level above Furnace B

Door Gaskets Furnace A



North area at man way entrance ground level

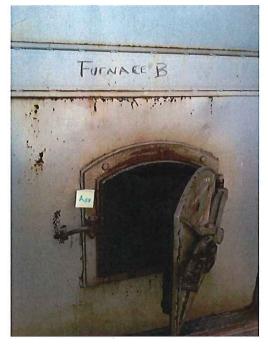


West area at man way entrance ground level



East area at man way entrance ground level

Door Gaskets Furnace B





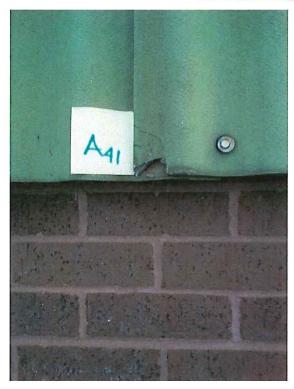
North area at man way entrance ground level

West area at man way entrance ground level



East area at man way entrance ground level

New Loading Dock Building



North Exterior Siding



East Exterior Siding



West Exterior Siding

New Loading Dock Building 2nd Level



Flooring & Mastic in control room area

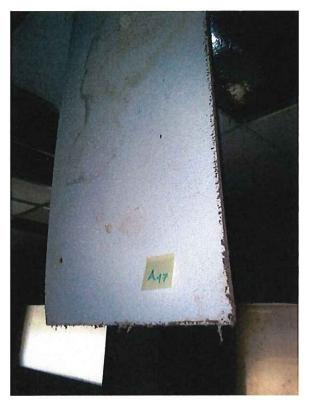


Flooring & Mastic in control room area



Flooring & Mastic in control room area

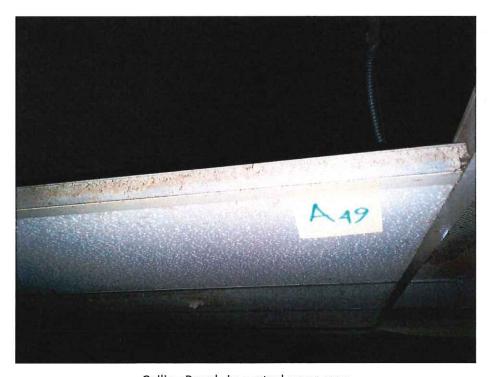
New Loading Dock Building 2nd Level



Ceiling Panels in control room area

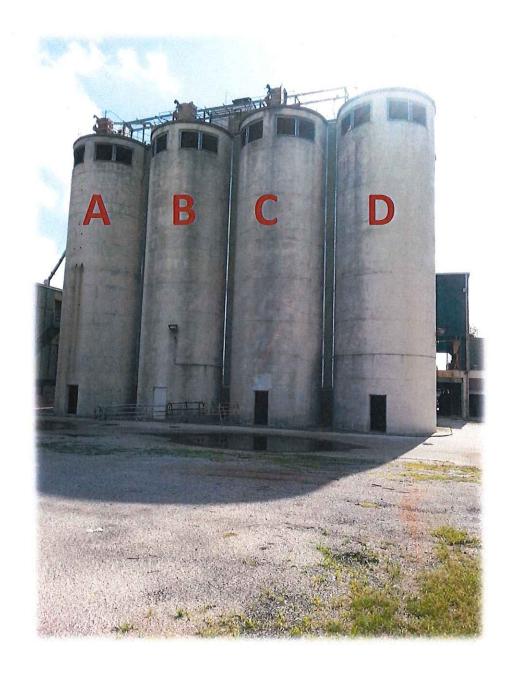


Ceiling Panels in control room area



Ceiling Panels in control room area

Silo Systems





Silo A Exterior Grout Material



Silo B Exterior Grout Material



Silo C Exterior Grout Material



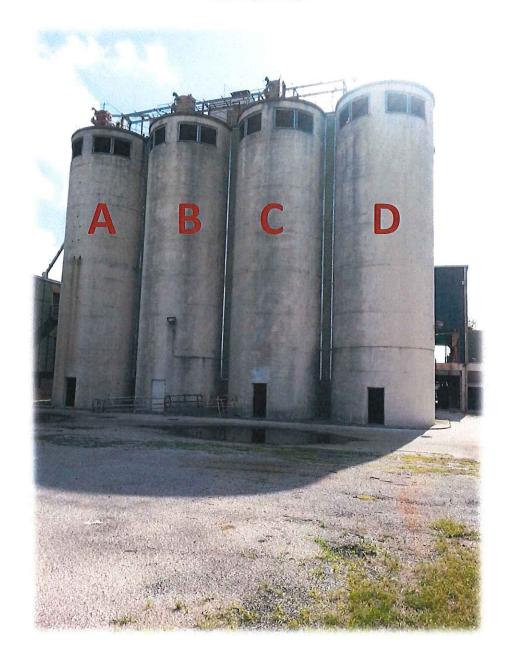
Silo D Exterior Grout Material

Corrugated Panels



Expansion area between Silo B and Silo C

Silo Systems





Paint Sample - Door Frame entrance Silo A



Paint Sample - Door Frame entrance Silo B



Paint Sample – Door Frame entrance Silo C

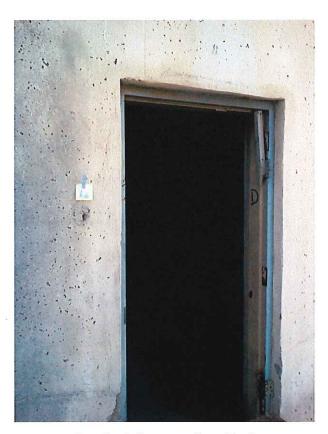


Paint Sample – Door Frame entrance Silo D





Exterior Paint on surface Silo B



Exterior Paint on surface Silo D



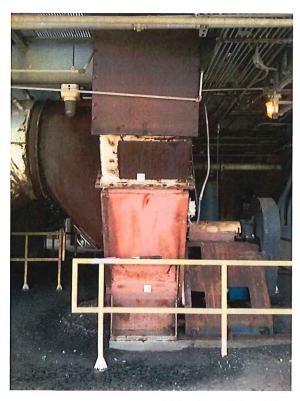
Exterior Coating on Furnace A



Exterior Coating on Furnace B



Exterior Paint at Blower Vent Piping Furnace B





Exterior Paint at Blower Vent Base Furnace B



Support Beams Old Loading Building



Vertical Chemical Tank 2nd level BPA Furnace Facility

BPA - Belt Press Area

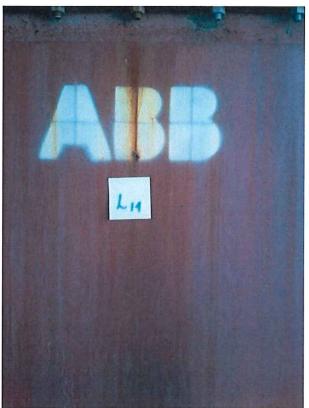


Process Sludge Piping system 2nd level Belt Press area



Belt Press Area 3rd Level





Vertical Vent System



Exterior Pipe Coating Overhead Filtrate Drain Pipe

APPENDIX C

ASBESTOS ANALYTICAL RESULTS & LEAD ANALYTICAL RESULTS

6110 W. 34th Street, Houston, Texas 77092 Phone: (713) 290-0221 - Fax: (713) 290-0248 *J3Resources.com*



Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) EPA 600/M4-82-020; 600/R-93/116

Tyrone Dorian ECMS, Inc. 4911 Lyons Avenue Houston TX 77020 J3 Order #:

JH1459712

Project #:

3805

Date Received: Date Analyzed:

19-Aug-2014 25-Aug-2014

Date Reported:

25-Aug-2014 25-Aug-2014

Almeda Sims WWTF

Sample ID #	Sample Description	Asbestos Constituents	Non-Asbestos Constituents	
A1	LAYER 1 Floor Tile, Gray/ Marbled, Homogeneous	None Detected	Other Non-Fibrous Material	100%
	LAYER 2 Mastic, Yellow, Homogeneous	None Detected	Other Non-Fibrous Material	100%
A2	LAYER 1 Floor Tile, Gray/ Marbled, Homogeneous	None Detected	Other Non-Fibrous Material	100%
	LAYER 2 Mastic, Yellow, Homogeneous	None Detected	Other Non-Fibrous Material	100%
A3	LAYER 1 Floor Tile, Gray/ Marbled, Homogeneous	None Detected	Other Non-Fibrous Material	100%
	LAYER 2 Mastic, Yellow, Homogeneous	None Detected	Other Non-Fibrous Material	100%
A4	Vinyl Covered Ceiling Tile, White/ Yellow, Homogeneous	None Detected	Fibrous Glass Other Non-Fibrous Material	95% 5%
A5	Ceiling Tile, White/ Gray, Homogeneous	None Detected	Cellulose Fiber Fibrous Glass Other Non-Fibrous Material	45% 10% 45%
A6	Ceiling Tile, White/ Gray, Homogeneous	None Detected	Cellulose Fiber Fibrous Glass Other Non-Fibrous Material	45% 10% 45%
A7	LAYER 1 Floor Tile, Gray/ Marbled, Homogeneous	None Detected	Other Non-Fibrous Material	100%
	LAYER 2 Mastic, Yellow, Homogeneous	None Detected	Other Non-Fibrous Material	100%

Duane Salinas Analyst

Lee W. Poye Lab Director

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NVLAP Lab Code: 200525-0; AIHA Lab ID: 157714; TDSHS License: 30-0273

Page 1 of

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Date Received:

19-Aug-2014

Date Analyzed: Date Reported: 25-Aug-2014 25-Aug-2014

Almeda Sims WWTF

Sample ID #	Sample Description	Asbestos Constituents	Non-Asbestos Constituents	
A8	LAYER 1 FloorTile, Gray/ Marbled, Homogeneous	None Detected	Other Non-Fibrous Material	100%
	LAYER 2 Mastic, Yellow, Homogeneous	None Detected	Other Non-Fibrous Material	100%
A9	LAYER 1 Floor Tile, Gray/ Marbled, Homogeneous	None Detected	Other Non-Fibrous Material	100%
	LAYER 2 Mastic, Yellow, Homogeneous	None Detected	Other Non-Fibrous Material	100%
A10	Ceiling Tile, White/ Gray, Homogeneous	None Detected	Cellulose Fiber Fibrous Glass	55% 2%
			Other Non-Fibrous Material	43%
A11	Ceiling Tile, White/ Gray, Homogeneous	None Detected	Cellulose Fiber Fibrous Glass	55% 2%
			Other Non-Fibrous Material	43%
A12	Ceiling Tile, White/ Gray, Homogeneous	None Detected	Cellulose Fiber Fibrous Glass	55% 2%
			Other Non-Fibrous Material	43%
A13	LAYER 1 Floor Tile, Gray/ Marbled, Homogeneous	None Detected	Other Non-Fibrous Material	100%
	LAYER 2 Mastic, Yellow, Homogeneous	None Detected	Other Non-Fibrous Material	100%

Duane Salinas Analyst

Lee W. Poye Lab Director

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l: 19-Aug-2014 l: 25-Aug-2014

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25-Aug-2014 25-Aug-2014

Almeda Sims WWTF

Sample ID #	Sample Description	Asbestos Constituents	Non-Asbestos Constituents	
A14	LAYER 1 Floor Tile, Gray/ Marbled, Homogeneous	None Detected	Other Non-Fibrous Material	100%
	LAYER 2 Mastic, Yellow, Homogeneous	None Detected	Other Non-Fibrous Material	100%
A15	LAYER 1 Floor Tile, Gray/ Marbled, Homogeneous	None Detected	Other Non-Fibrous Material	100%
	LAYER 2 Mastic, Yellow, Homogeneous	None Detected	Other Non-Fibrous Material	100%
A16	Vinyl Covered Ceiling Tile, White/	None Detected	Fibrous Glass	95%
	Yellow, Homogeneous		Other Non-Fibrous Material	5%
A17	Vinyl Covered Ceiling Tile, White/	None Detected	Fibrous Glass	95%
	Yellow, Homogeneous		Other Non-Fibrous Material	5%
A18	Vinyl Covered Ceiling Tile, White/	None Detected	Fibrous Glass	95%
	Yellow, Homogeneous		Other Non-Fibrous Material	5%
A19	LAYER 1 Floor Tile, Tan/ Marbled, Homogeneous	None Detected	Other Non-Fibrous Material	100%
	LAYER 2 Mastic, Yellow, Homogeneous	None Detected	Other Non-Fibrous Material	100%
A20	LAYER 1 Floor Tile, Tan/ Marbled, Homogeneous	None Detected	Other Non-Fibrous Material	100%
	LAYER 2 Mastic, Yellow, Homogeneous	None Detected	Other Non-Fibrous Material	100%

Duane Salinas Analyst

Lee W. Poye Lab Director

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Project #:

3805

Date Received: Date Analyzed: 19-Aug-2014 25-Aug-2014

Date Reported:

25-Aug-2014

Almeda Sims WWTF

Sample ID #	Sample Description	Asbestos Constituents	Non-Asbestos Constituents	
A21	LAYER 1 Floor Tile, Tan/ Marbled, Homogeneous	None Detected	Other Non-Fibrous Material	100%
	LAYER 2 Mastic, Yellow, Homogeneous	None Detected	Other Non-Fibrous Material	100%
A22	Rubber Material, Black, Homogeneous	None Detected	Synthetic Fiber Other Non-Fibrous Material	35% 65%
A23	LAYER 1 Mastic Wrap, White, Homogeneous	None Detected	Wollastonite Other Non-Fibrous Material	<1% 100%
	LAYER 2 Insulation, Yellow, Homogeneous	None Detected	Fibrous Glass Other Non-Fibrous Material	98% 2%
A24	LAYER 1 Mastic Wrap, White, Homogeneous	None Detected	Wollastonite Other Non-Fibrous Material	<1% 100%
	LAYER 2 Insulation, Yellow, Homogeneous	None Detected	Fibrous Glass Other Non-Fibrous Material	98% 2%
A25	LAYER 1 Mastic/Wrap, White/ Silver, Homogeneous	None Detected	Cellulose Fiber Fibrous Glass Wollastonite Other Non-Fibrous Material	30% 5% <1 65%
	LAYER 2 Insulation, Yellow, Homogeneous	None Detected	Fibrous Glass Other Non-Fibrous Material	98% 2%

Duane Salinas Analyst

Lee W. Poye Lab Director

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25-Aug-2014

Almeda Sims WWTF

Sample ID #	ample ID# Sample Description		5	Non-Asbestos Constituents	
A26	6 LAYER 1 FloorTile, Gray/ Marbled, Homogeneous			Other Non-Fibrous Material	100%
	LAYER 2 Mastic, Yellow, Homogeneous	None Detected		Other Non-Fibrous Material	100%
A27	LAYER 1 Floor Tile, Gray/ Marbled, Homogeneous	None Detected		Other Non-Fibrous Material	100%
	LAYER 2 Mastic, Yellow, Homogeneous	None Detected		Other Non-Fibrous Material	100%
A28	LAYER 1 None Detected Floor Tile, Gray/ Marbled, Homogeneous			Other Non-Fibrous Material	100%
	LAYER 2 Mastic, Yellow, Homogeneous	None Detected		Other Non-Fibrous Material	100%
A29	Paint/Mastic, Gray/ Black, Homogeneous	None Detected		Other Non-Fibrous Material	100%
A30	Rubber Material, Black, Homogeneous	None Detected		Synthetic Fiber Other Non-Fibrous Material	35% 65%
A31	Painted Transite, Green/ Gray, Homogeneous	Chrysotile	20%	Other Non-Fibrous Material	80%
A32	Painted Transite, Green/ Gray, Homogeneous	Chrysotile	20%	Other Non-Fibrous Material	80%
A33	Painted Transite, Green/ Gray, Homogeneous	Chrysotile	20%	Other Non-Fibrous Material	80%
A34	Rubber Material, Black, Homogeneous	None Detected		Synthetic Fiber	35%
				Other Non-Fibrous Material	65%

Duane Salinas Analyst

Lee W. Poye Lab Director

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Project #:

3805

Date Received:

19-Aug-2014

Date Analyzed: Date Reported: 25-Aug-2014 25-Aug-2014

Almeda Sims WWTF

Sample ID #	D# Sample Description		s	Non-Asbestos Constituents			
A35	Insulation, Tan, Homogeneous	s None Detected		Fibrous Glass Other Non-Fibrous Material	97% 3%		
A36	Rope Gasket, Gray, Homogeneous	None Detected	·	Synthetic Fiber Fibrous Glass	98% 2%		
A37	Rope Gasket, Gray, Homogeneous	None Detected		None Detected		Synthetic Fiber Fibrous Glass	98% 2%
A38	Rope Gasket, Gray, Homogeneous	None Detected		Synthetic Fiber Fibrous Glass	98% 2%		
A39	Rope Gasket, Gray, Homogeneous	None Detected		Synthetic Fiber Fibrous Glass	98% 2%		
A40	Rope Gasket, Gray, Homogeneous	None Detected		Synthetic Fiber Fibrous Glass	98% 2%		
A41	Painted Transite, Green/ Gray, Homogeneous	Chrysotile Crocidolite	15% 2%	Other Non-Fibrous Material	83%		
A42	Painted Transite, Green/ Gray, Homogeneous	Chrysotile 15% Crocidolite 2%		Other Non-Fibrous Material	83%		
A43	Painted Transite, Green/ Gray, Homogeneous	Chrysotile Crocidolite	15% 2%	Other Non-Fibrous Material	83%		
A44	LAYER 1 Floor Tile, Tan/ Marbled, Homogeneous	None Detected		Other Non-Fibrous Material	100%		
	LAYER 2 Mastic, Black, Homogeneous	Chrysotile	4%	Other Non-Fibrous Material	96%		

Duane Salinas Analyst

Lee W. Poye Lab Director

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Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) EPA 600/M4-82-020; 600/R-93/116

Tyrone Dorian ECMS, Inc. 4911 Lyons Avenue Houston TX 77020

J3 Order #:

JH1459712

Project #:

3805

Date Received: Date Analyzed:

19-Aug-2014 25-Aug-2014

Date Reported:

25-Aug-2014

Almeda Sims WWTF

Sample ID #	Sample Description	Asbestos Constituents	Non-Asbestos Constituents	
A45	LAYER 1 Floor Tile, Tan/ Marbled, Homogeneous	None Detected	Other Non-Fibrous Material	100%
	LAYER 2 Mastic, Black, Homogeneous	Chrysotile 4%	Other Non-Fibrous Material	96%
A46	LAYER 1 Floor Tile, Tan/ Marbled, Homogeneous	None Detected	Other Non-Fibrous Material	100%
	LAYER 2 Mastic, Black, Homogeneous	Chrysotile 4%	Other Non-Fibrous Material	96%
A47	Ceiling Tile, White/ Gray, Homogeneous	None Detected	Cellulose Fiber Other Non-Fibrous Material	45% 55%
A48	Ceiling Tile, White/ Gray, Homogeneous	None Detected	Cellulose Fiber Other Non-Fibrous Material	45% 55%
A49	LAYER 1 Ceiling Tile, White/ Gray, Homogeneous	None Detected	Cellulose Fiber Other Non-Fibrous Material	45% 55%
	LAYER 2 Ceiling Tile, White/ Gray, Homogeneous	None Detected	Fibrous Glass Other Non-Fibrous Material	55% 45%
A50	Cement, Gray, Homogeneous	None Detected	Other Non-Fibrous Material	100%
A51	Cement, Gray, Homogeneous	None Detected	Other Non-Fibrous Material	100%
A52	Cement, Gray, Homogeneous	None Detected	Other Non-Fibrous Material	100%
A53	Cement, Gray, Homogeneous	None Detected	Other Non-Fibrous Material	100%

Duane Salinas

Lee W. Poye Lab Director

This report relates only to the materials tested. This report is for the exclusive use of the addressed client and shall not be reproduced except in full, without written approval by J3 Resources, Inc. (J3). Samples are analyzed according to the methods listed above and are subject to the inherent limitations of PLM and interference of matrix components. Reporting limit for the above method is a function of the quantity of sample analyzed, matrix interference, sample preparation, fiber size, and distribution. Asbestos may be detected in concentrations of <1% by area if sufficient materials is analyzed. J3 recommends TEM confirmation of soils, vermiculite and non-friable organically bound materials (NOB) reported as None Detected or < 1% Asbestos by PLM. All samples received in good condition unless otherwise noted. This report shall not be used to claim product approval, certification, or endorsement by NVLAP, NIST, or any agency of the federal government.

NVLAP Lab Code: 200525-0; AIHA Lab ID: 157714; TDSHS License: 30-0273

6110 W. 34th Street, Houston, Texas 77092 Phone: (713) 290-0221 - Fax: (713) 290-0248 *J3Resources.com*



Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) EPA 600/M4-82-020; 600/R-93/116

Tyrone Dorian ECMS, Inc. 4911 Lyons Avenue Houston TX 77020 J3 Order #:

JH1459712

Project #: 38

3805

Date Received: Date Analyzed:

19-Aug-2014 25-Aug-2014

Date Reported:

25-Aug-2014

Almeda Sims WWTF

Sample ID #	Sample Description	Asbestos Constituents		Non-Asbestos Constituents	
A54	Painted Transite, Green/ Gray, Homogeneous	Chrysotile Crocidolite	15% 2%	Other Non-Fibrous Material	83%

Duane Salinas Analyst

Lee W. Poye Lab Director

This report relates only to the materials tested. This report is for the exclusive use of the addressed client and shall not be reproduced except in full, without written approval by J3 Resources, Inc. (J3). Samples are analyzed according to the methods listed above and are subject to the inherent limitations of PLM and interference of matrix components. Reporting limit for the above method is a function of the quantity of sample analyzed, matrix interference, sample preparation, fiber size, and distribution. Asbestos may be detected in concentrations of <1% by area if sufficient material is analyzed. J3 recommends TEM confirmation of soils, vermiculite and non-friable organically bound materials (NOB) reported as None Detected or < 1% Asbestos by PLM. All samples received in good condition unless otherwise noted. This report shall not be used to claim product approval, certification, or endorsement by NVLAP, NIST, or any agency of the federal government.

NVLAP Lab Code: 200525-0; AIHA Lab ID: 157714; TDSHS License: 30-0273

Page 8 of 8

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J3 Resources, Inc. • 6110 West 34th Street • Houston, Texas 77092 • tel: 713/290-0221 • fax: 713/290-0248

^{*} Emergency TAT requires prior leb notification. All semples analyzed outside normal business hours are charged at Emergency rate.
**TAT's are in Business Days rather than Hours (i.e.1 Day TAT = End of Next Business Day)

IH CHAIN OF CUSTODY

Project Name/Number Almeda Sims WWTH

Page Z of Z

SAMPLE IDENTIFICATION

SAMPLENUMBER	SAMPLE LOCATION / MATERIAL	VOLUME
AI		

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HA-A		
1737		
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	<u> </u>	<u> </u>
Comments/Special Instructions:		

J3 Resources, Inc. + 6110 West 34th Street + Houston, Texas 77092 + tel: 713/290-0221 + fax: 713/290-0248

J3 Resources, Inc. 6110 West 34th Street, Houston, Texas 77092 Phone: (713) 290-0221 - Fax: (713) 290-0248 j3resources.com



Lead in Paint Performed by Flame AA – USEPA SW846 7420/3050B Laboratory Results

Attn: Tyrone Dorian ECMS 4911 Lyons Avenue Houston, TX 77020 J3 Order #: JH1459711
Date Received: 08/19/2014
Date Analyzed: 08/25/2014
Date Reported: 08/25/2014

ALMEDIA SIMS WWTF

SAMPLE ID	MATERIAL DESCRIPTION/LOCATION	LEAD CONCENTRATION (mg/kg)	LEAD CONCENTRATION (%)
L1	Paint Chips	349.4	0.0349
L2	Paint Chips	<rl< td=""><td>< RL</td></rl<>	< RL
L3	Paint Chips	<rl< td=""><td>< RL</td></rl<>	< RL
L4	Paint Chips	<rl< td=""><td>< RL</td></rl<>	< RL
L5	Paint Chips	<rl< td=""><td>< RL</td></rl<>	< RL
L6	Paint Chips	<rl< td=""><td><rl< td=""></rl<></td></rl<>	<rl< td=""></rl<>
L7	Paint Chips	<rl< td=""><td>< RL</td></rl<>	< RL
L8	Paint Chips	<rl< td=""><td>< RL</td></rl<>	< RL
L9	Paint Chips	< RL	<rl< td=""></rl<>
L10	Paint Chips	176.4	0.0176
L11	Paint Chips	146.5	0.0147
L12	Paint Chips	< RL	<rl< td=""></rl<>
L13	Paint Chips	<rl< td=""><td>< RL</td></rl<>	< RL
L14	Paint Chips	<rl< td=""><td><rl< td=""></rl<></td></rl<>	<rl< td=""></rl<>
L15	Paint Chips	< RL	<rl< td=""></rl<>

<RL = Less than Reporting Limit

E. Nguyen_

Laboratory Supervisor

This report relates only to the samples submitted. The analysis has been conducted according to the method(s) listed above. Blank corrections are not applied to data unless requested by the customer. This report is for the exclusive use of the addressed customer and shall not be reproduced except in full without written approval by J3 Resources, Inc. (J3). Unless otherwise noted, all quality control samples performed within specifications established by the laboratory. Reporting Limit: 0.50ppm.

NVLAP 200525-0

TDSHS 30-0273

J3 Resources, Inc.
6110 West 34th Street, Houston, Texas 77092
Phone: (713) 290-0221 – Fax: (713) 290-0248
j3resources.com



Lead in Paint Performed by Flame AA – USEPA SW846 7420/3050B

Laboratory QA/QC Results

Attn: Tyrone Dorian ECMS 4911 Lyons Avenue Houston, TX 77020 J3 Order #: JH1459711 Date Received: 08/25/2014 Date Analyzed: 08/25/2014 Date Reported: 08/25/2014

ALMEDIA SIMS WWTF

Correlation Coefficient	1.0000	
Reporting Limit Verification	0.4953ppm	
Initial Calibration Verification	102.8%	
Initial Calibration Blank	< 0.5ppm	
Continuing Calibration Verification	94.4%, 93.6%, 95.2%	
Continuing Calibration Blank	< 0.5ppm	
Method Blank	< 12.5ppm	
Laboratory Control Samples	102.2%	
Matrix Spikes	96.0%	
Matrix Spike Duplicates	97.0%	
Relative Percent Differences	1.00%	

E. Mgnyen_

Laboratory Supervisor

This report relates only to the samples submitted. The analysis has been conducted according to the method(s) listed above. Blank corrections are not applied to data unless requested by the customer. This report is for the exclusive use of the addressed customer and shall not be reproduced except in full without written approval by J3 Resources, Inc. (J3). Unless otherwise noted, all quality control samples performed within specifications established by the laboratory. Reporting Limit: 0.50ppm.

NVLAP 200525-0

TDSHS 30-0273

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O Level II O Gravimetric Re	duction O NOB 198.6 O Gravimetric Reduc	O Culture Plates: ction	Viable O Air (NIOSH 7082) O TCLP (EPA 1311)
TEM - WATER TEM - DUST (AS	TM 5755) PCM - AIR	MOLD - BULK	LEAD - GFAA
O Drinking Water O Micro-Vac Qua 100.2 / 198.2 O Micro-Vac Qua O Wastewater		O Tape Lift/Bulk: O Culture Plates:	ID Only O Water (EPA 7421) ID Only O Effluent O Air
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^{*} Emergency TAT requires prior lab notification. All samples analyzed outside normal business hours are charged at Emergency rate.

SAMPLE IDENTIFICATION



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J3 Resources, Inc. • 6110 West 34th Street • Houston, Texas 77092 • tel: 713/290-0221 • fax: 713/290-0248

APPENDIX D
LICENSE AND CERTIFICATION



TEXAS DEPARTMENT OF STATE HEALTH SERVICES

ENVIRONMENTAL CONSULTANT AND MANAGEMENT SERVICES

is certified to perform as a

Asbestos Consultant Agency

in the State of Texas within the purview of Texas Occupations Code, chapter 1954, so long as this license is not suspended or revoked and is renewed according to the rules adopted by the Texas Board of Health.

DAVID LAKEY, M.D. COMMISSIONER OF HEALTH

License Number: 100476

Control Number: 96664

Expiration Date: <u>1/11/2016</u>

(Void After Expiration Date)

VOID IF ALTERED NON-TRANSFERABLE





www.natectx.com

Tyrone P. Dorian

NPDR92113-7388

Certification #

Asbestos Project Designer Refresher

Approved Course

9/21/2013 9/21/2014

Course Date

Expiration Date

TX 10168136

www.natectx.com

Tyrone Dorian

NR091913-7388

Air Monitoring Technician Refresher

Approved Course

9/19/2013 9/19/2014

Course Date

TX 10168136

DL#



www.natectx.com

Tyrone P. Dorian

NMPR92213-7388

Cortification #
Asbestos Management Planner Refresher

Approved Course

9/22/2013 9/22/2014

Course Date **Expiration Date** TX 10168136

DL#



www.natectx.com

Tyrone P. Dorian

NIR091913-7388

9/19/2013

Course Date

Certification #
Asbestos Inspector Refresher

Approved Course

TX 10168136 9/19/2014 **Expiration Date**



TEXAS DEPARTMENT OF STATE HEALTH SERVICES

Be it known that

TYRONE P DORIAN

is certified to perform as a

Lead Risk Assessor

in the State of Texas and is hereby governed by the rights, privileges and responsibilities set forth in Texas Occupations Code, Chapter 1955 and Title 25, Texas Administrative Code, Chapter 295 relating to Texas Environmental Lead Reduction, as long as this license is not suspended or revoked.

David L. Lakey, M.D.

Dind The, MD

Commissioner of Health License Number: 2070156

Expiration Date: 3/29/2016

Void After Expiration Date

VOID IF ALTERED

Control Number 6970

NON-TRANSFERABLE







TEXAS DEPARTMENT OF STATE HEALTH SERVICES

Be II known that

ECMS INC

u centified to perform at a

Lead Firm

in the State of Texas and is hereby governed by the rights, privileges and responsibilities set forth in Texas Occupations (inde, Chopter 1988 and Title 28, Texas Administrative (cole, Chapter 1988 and Title 28, Texas Administrative (cole, Chapter 1988 relating to Texas Environmental Ecol Reduction, as long as this license is not suspended or resolved.

David L. Lakey, M.D. Communium of Health

Mad May 1911

Lucius Number: 2110505 Control Simber 6615 Expiration Date 6/18/2016 (Void After Equivation Date)

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AIHA Laboratory Accreditation Programs, LLC

acknowledges that

J3 Resources, Inc.

6110 West 34th Street, Houston, TX 77092

Laboratory ID: 157714
along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2005 international standard, General Requirements for the Competence of Testing and Calibration Laboratories in the following:

LABORATORY ACCREDITATION PROGRAMS

INDUSTRIAL HYGIENE ☐ ENVIRONMENTAL LEAD
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ENVIRONMENTAL MICROBIOLOGY FOOD UNIQUE SCOPES

Accreditation Expires: 05/01/2016 Accreditation Expires:

Accreditation Expires: 05/01/2016 Accreditation Expires:

Accreditation Expires:

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached Scope of Accreditation. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2005 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached Scope of Accreditation. Please review the AIHA-LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

Gerald R Schalt

Gerald Schultz, CIH

Chairperson, Analytical Accreditation Board

Revision 14: 03/26/2014

Cheryl O. Opertan

Cheryl O. Morton
Managing Director, AIHA Laboratory Accreditation Programs, LLC

Date Issued: 05/30/2014

United States Department of Commerce National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 200525-0

J3 Resources, Inc.

Houston, TX

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

BULK ASBESTOS FIBER ANALYSIS

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2014-04-01 through 2015-03-31

Effective dates



For the National Institute of Standards and Technology

NVLAP-01C (REV. 2009-01-28)



TEXAS DEPARTMENT OF STATE HEALTH SERVICES

J3 RESOURCES INC

is certified to perform as a

Asbestos Laboratory PCM, PLM, TEM

in the State of Texas within the purview of Texas Occupations Code, chapter 1954, so long as this license is not suspended or revoked and is renewed according to the rules adopted by the Texas Board of Health.

DAVID LAKEY, M.D. COMMISSIONER OF HEALTH

License Number: 300273

Expiration Date: 3/15/2016

Control Number: 95940

(Void After Expiration Date)

VOID IF ALTERED

NON-TRANSFERABLE